



California  
DEPARTMENT OF TECHNOLOGY



**DIGITAL  
WEB  
SERVICES  
NETWORK**

**DWSN Quarterly Forum  
Thursday, October 22, 2020**

[webstandards.ca.gov](http://webstandards.ca.gov)



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# Opening Remarks Manveer Bola

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# Agenda

- AB434 Certification and Updates
- CAWeb Publishing Update
- Displaying Spatial Data in a User-Friendly Way
- DTSC Household Assessment and Data Collection Tool
- Survey for Future DWSN Topics
- Open Discussion
- Closing Remarks



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# AB 434 Web Accessibility Update

Tushar Pattani

*California Department of Technology*

[webstandards.ca.gov](http://webstandards.ca.gov)



# Web Accessibility Compliance Certification Due Date: July 1, 2021

## Resources available:

[SAM Section 5190.1 - Website Standards](#)

[SAM Section 5190.2 - Standard ca.gov template](#)

[Web Accessibility Toolkit](#)

Web Accessibility Community of Practice Forum

Individual Guidance Meetings

Web Accessibility training classes

Optical Character Recognition Bot (OCRBot)

[webstandards.ca.gov](https://webstandards.ca.gov)





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# Web Accessibility Update Questions?

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# CAWeb Publishing Update



Jim Burke

*Office of Enterprise Technology  
California Department of Technology*

[webstandards.ca.gov](http://webstandards.ca.gov)





# CAWeb Publishing Service

- Integrated Web Content Management System
- Build on WordPress the #1 WCMS >30% of all websites are built on WordPress : <https://wordpress.org>
- Easy to use Divi Modules
  - <https://elegantthemes.com/documentation/divi/modules/>
- CAWeb Publishing Theme + State Template
- We manage the technology – You manage the business content
- 40+ extended Features Via Plugins
  - <https://caweb.cdt.ca.gov/features>
- Integrated Google Analytics and Google Search
- Currently supporting 52 active sites with 5 more in progress
  - <https://caweb.cdt.ca.gov/our-customers/>





# CAWeb Publishing Service

## Coming Soon

- Full support for the State Template version 5.5
  - <https://template.webstandards.ca.gov/>
- Google Tag Manager integration
- New Password security policy enforcement
- CAWeb Publishing 2.0 Visual Builder

On-Boarding guidelines & additional information

<https://caweb.cdt.ca.gov/>





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# CAWeb Publishing Update Questions?

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# Displaying Spatial Data in a User-Friendly Way

Art Khomishen/Isaac Cabrera

*Office of Enterprise Technology  
California Department of Technology*

[webstandards.ca.gov](http://webstandards.ca.gov)

## USE CASE:

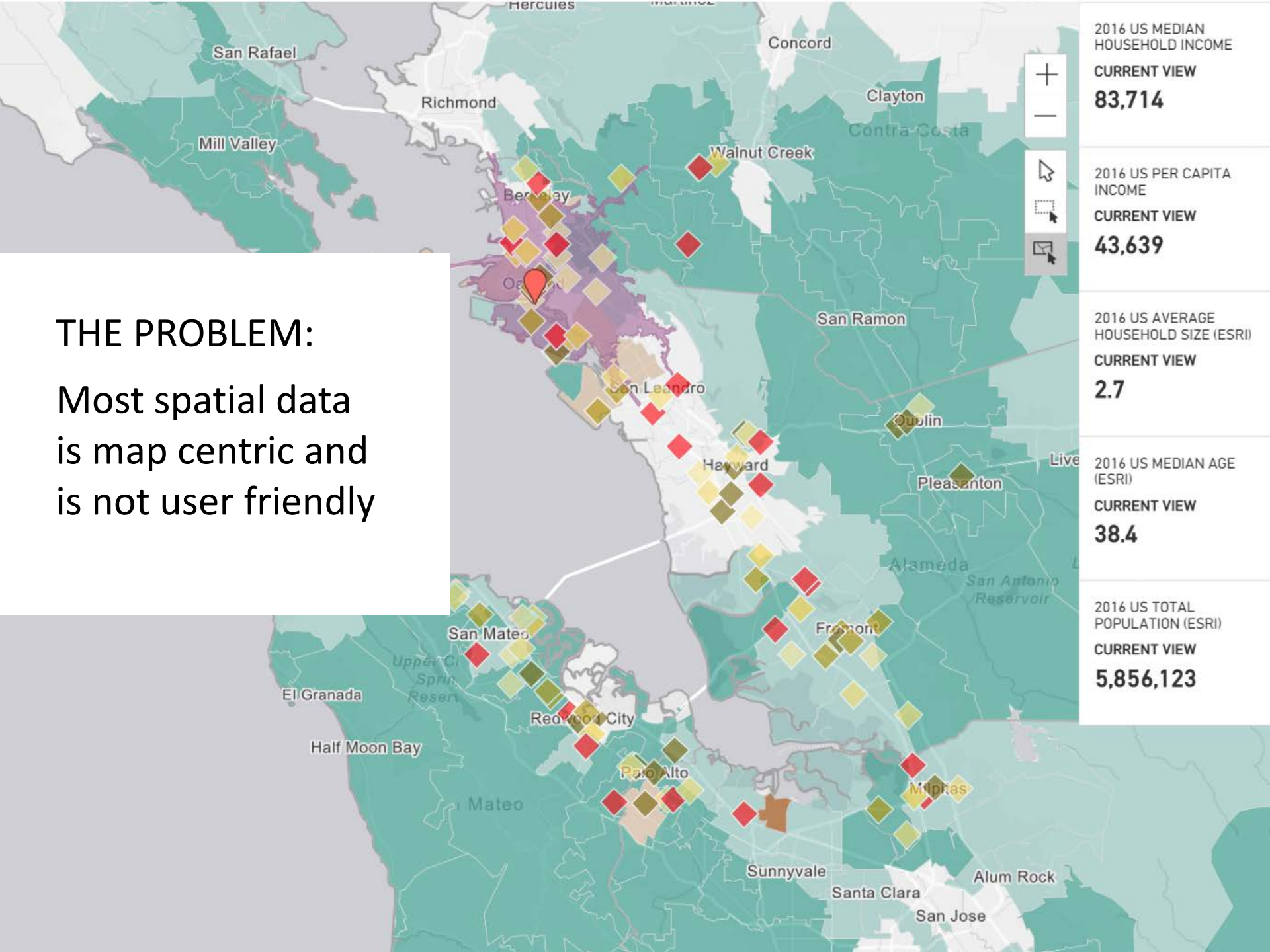
Get critical Fire and  
Public Safety Power  
Shutoff information  
on the go





## THE PROBLEM:

Most spatial data  
is map centric and  
is not user friendly





# The Problem:

## Map centric interfaces perform poorly.

20

### Performance

#### Metrics



■ First Contentful Paint	2.7 s	▲ Time to Interactive	19.7 s
▲ Speed Index	9.0 s	▲ Total Blocking Time	2,760 ms
▲ Largest Contentful Paint	11.7 s	● Cumulative Layout Shift	0

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

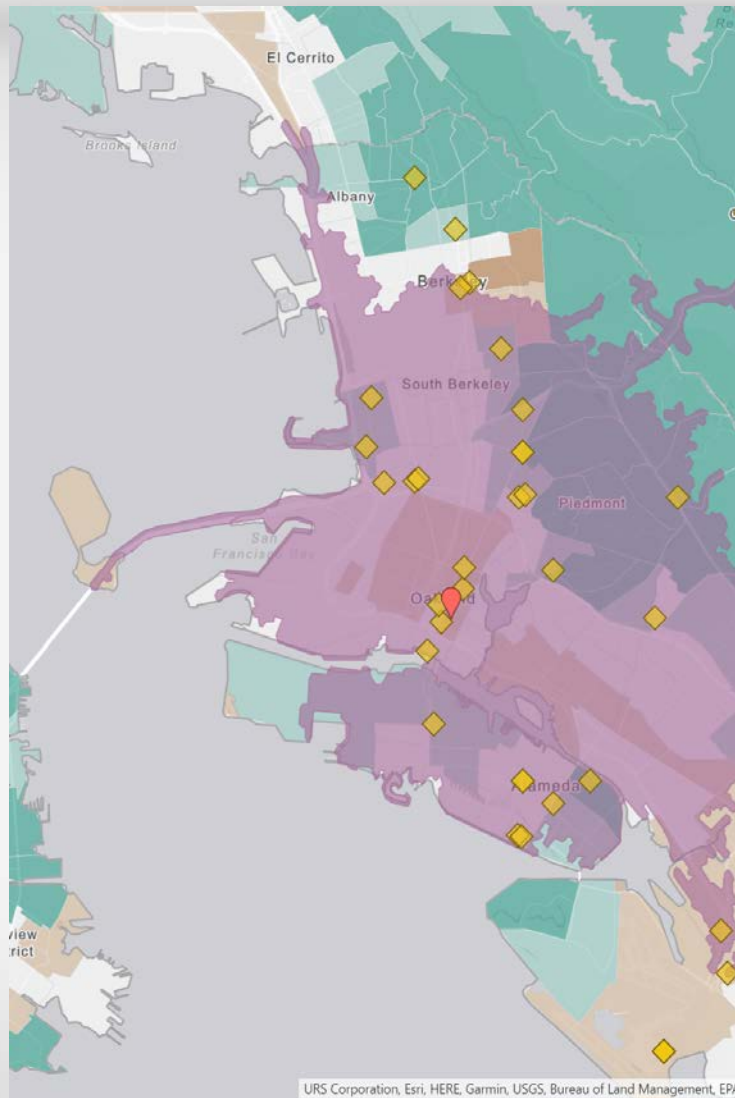
#### Opportunity

#### Estimated Savings

▲ Serve images in next-gen formats	<div></div>	3.9 s	▼
▲ Preload key requests	<div></div>	2.96 s	▼
▲ Remove unused JavaScript	<div></div>	2.7 s	▼
▲ Properly size images	<div></div>	2.25 s	▼
▲ Eliminate render-blocking resources	<div></div>	1.57 s	▼
▲ Efficiently encode images	<div></div>	0.9 s	▼



# Map is non-essential and complementary to the data



## USERS

▼ 7.66%

**470**

Yesterday

## USERS

▼ 0.16%

**45.06K**

Last 90 days

## USERS

▼ 0.21%

**15.02K**

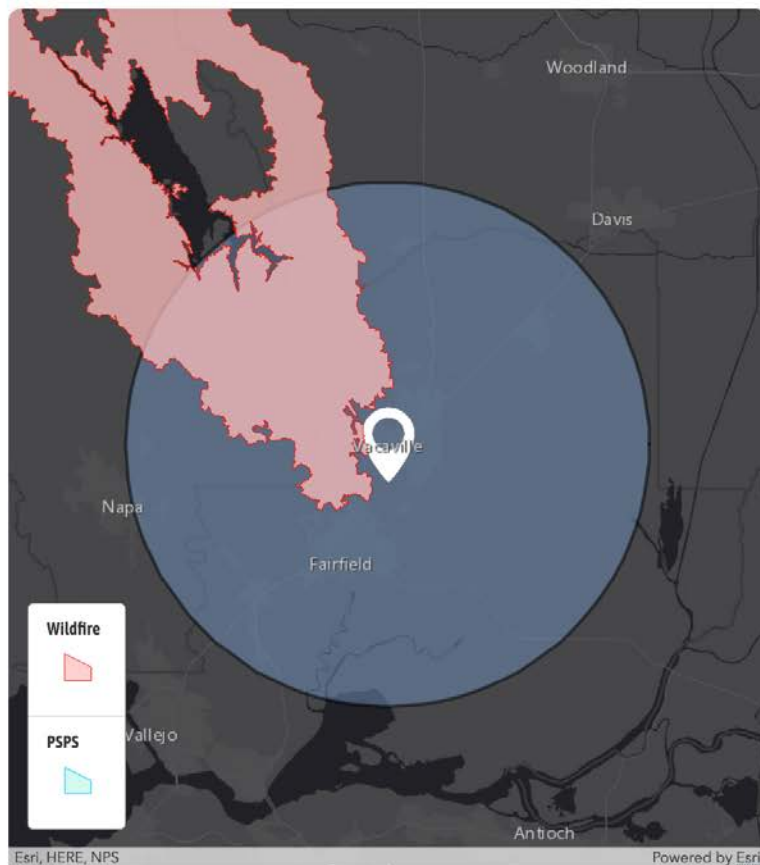
Last 30 days







# Simplify the map using only two layers



Active Wildfires Near Me:

1

[Interactive Incident Map](#)



Acres Burned Near Me:

363,219

[More about this incident](#)

(LNU Lightning Complex)



Currently in PSPS Area:

No

[Learn about Power Shutoffs](#)



Air Quality Index:

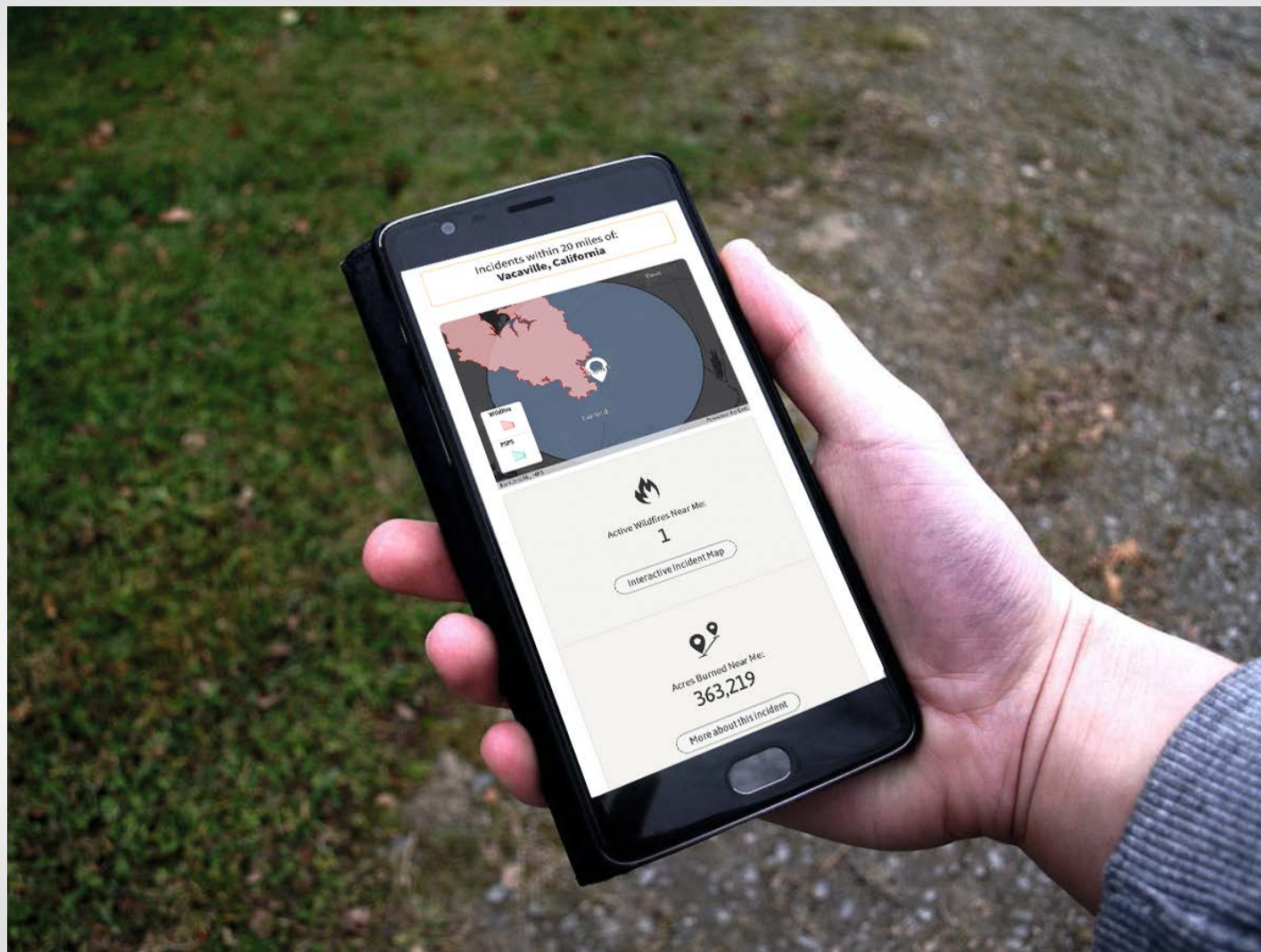
90

Moderate

[Learn about Your Air Quality](#)



# Sample of a map on mobilephone





# Sample of Performance Page



## Performance

### Metrics



● First Contentful Paint	0.7 s	■ Time to Interactive	3.3 s
■ Speed Index	1.5 s	■ Total Blocking Time	190 ms
● Largest Contentful Paint	0.8 s	● Cumulative Layout Shift	0.002

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

[View Trace](#)



**Opportunities** — These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

Opportunity	Estimated Savings
▲ Remove unused JavaScript	1.04 s
■ Eliminate render-blocking resources	0.35 s
■ Preconnect to required origins	0.21 s



# Sample of Accessibility Page



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

**ARIA** — These are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistive technology, like a screen reader.

▲ Elements with an ARIA `[role]` that require children to contain a specific `[role]` are missing some or all of those required children. ▼

**Additional items to manually check (10)** — These items address areas which an automated testing tool cannot cover. ▼  
Learn more in our guide on [conducting an accessibility review](#).

**Passed audits (23)** ▼

**Not applicable (17)** ▼



# Best Practices

- **Consistency and simplicity**
- **Present the data first**
- **Position map as a supporting element**



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# Displaying Spatial Data Questions

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# DTSC Household Assessment and Data Collection Tool

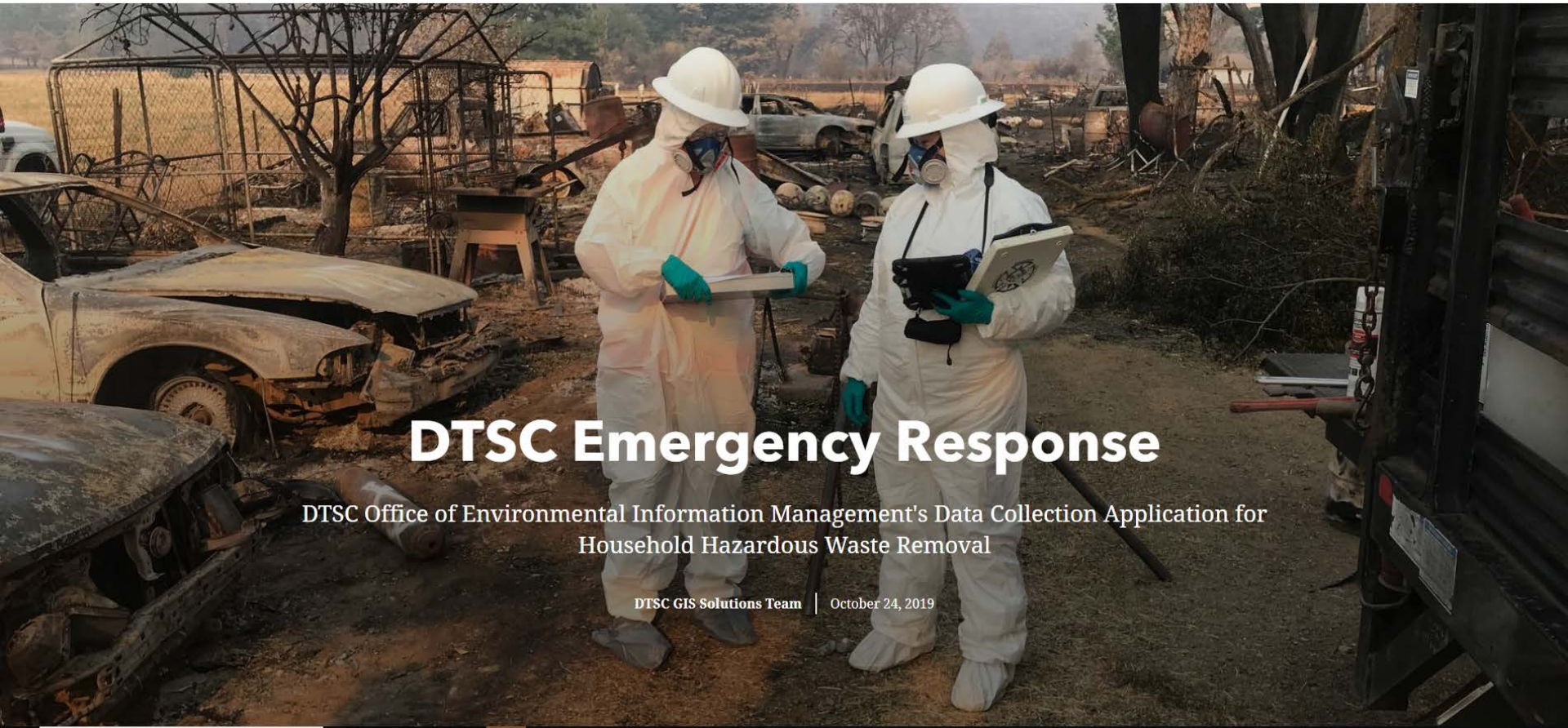
William Ferguson

*Department of Toxic Substances Control*

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# DTSC Emergency Response



## DTSC Emergency Response

DTSC Office of Environmental Information Management's Data Collection Application for Household Hazardous Waste Removal

DTSC GIS Solutions Team | October 24, 2019

# Objectives

- Discuss DTSC role in Emergency Response and how the applications evolved the paper-based process to a streamlined online data collection tool.
- How the app empowers us to engage with public, locals, and other agencies involved in the recovery process.
- How IT put themselves in a position to allow business to understand the value of the technology.



# Household Hazardous Inspection Process



DTSC Emergency Response



## Household Hazardous Waste (HHW) and Asbestos Inspection and Removal

*What constitutes HHW? –*

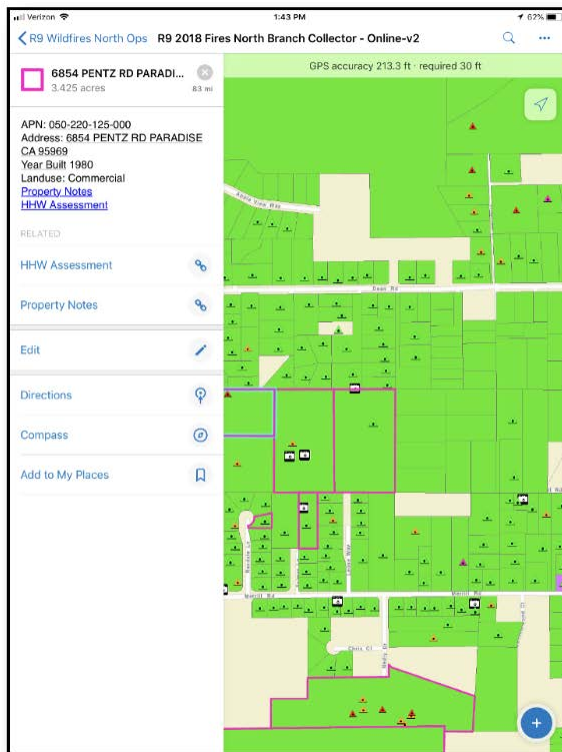
*Batteries, Waste Oil, Misc. Fuels, Compressed Gas Cylinders, Bulk Pesticides, Fertilizers, Paints, Thinners and Aerosol Cans*

Asbestos Can Include the Following - Transite Siding, Transite Pipe, Transite Roofing, and Floor Tiles



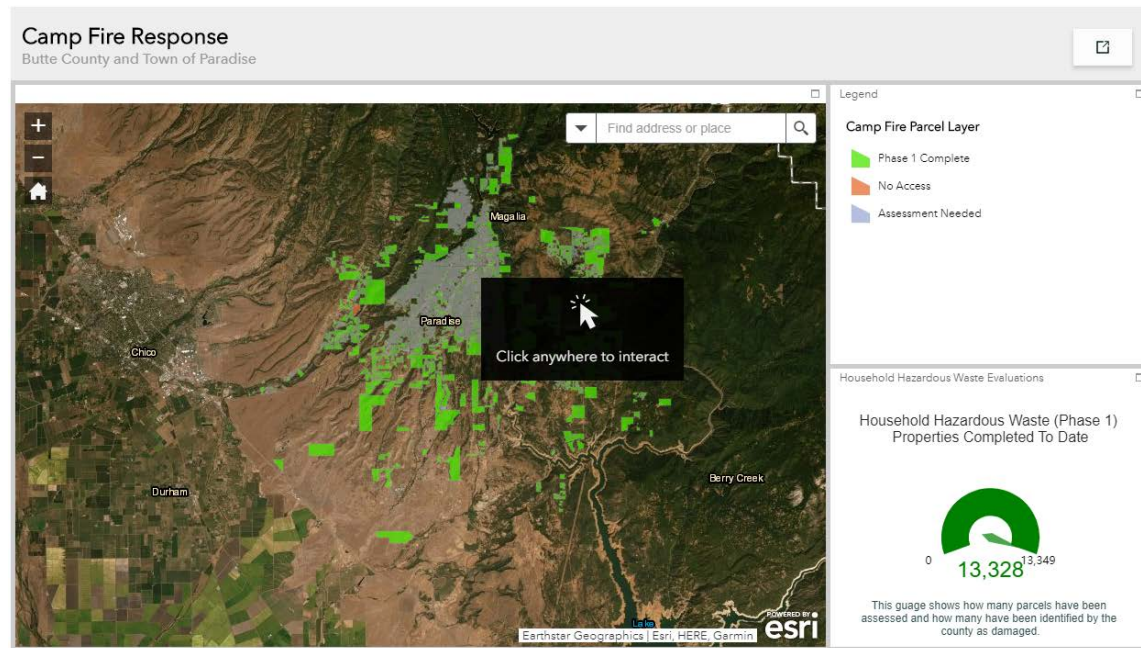
# Data Collection Applications

- DTSC's Office of Environmental Information Management developed a data collection app for Response
- With US EPA help, application improved and expanded to serve over 30 separate teams
- DTSC and EPA utilized tablets to collect data in field using Collector for ArcGIS and Survey123

This screenshot shows the 'North HHW v3' app interface. It is a form for data collection. Fields include: APN (050-220-125-000), Address (6854 PENTZ RD PARADISE CA 95969), Date and Time of Assessment (January 31, 2019, 1:43 PM), Team Name (dropdown), Team Lead (Roger.Cleaves@dtsc.ca.gov, DTSC), and Organization (dropdown). There are two radio button questions: 'Suspect ACM exists onsite?' (Yes/No) and 'HHW exists onsite?' (Yes/No). A section titled 'HHW Item Collection Details - Expand Arrow' contains a list of items with checkboxes: Aerosols, Antifreeze, Batteries, Bulk Fuel, Bulk Oil, Compressed Gas Cylinders, Fertilizers, Household Cleaners, Paint, Pesticides, Pool Chemicals, Solvents, and Other. At the bottom, there are two more radio button questions: 'E-waste Collected Onsite?' (Yes/No) and 'Transfer In Place?' (Yes/No). A green checkmark icon is at the bottom right.

# Informing the Public

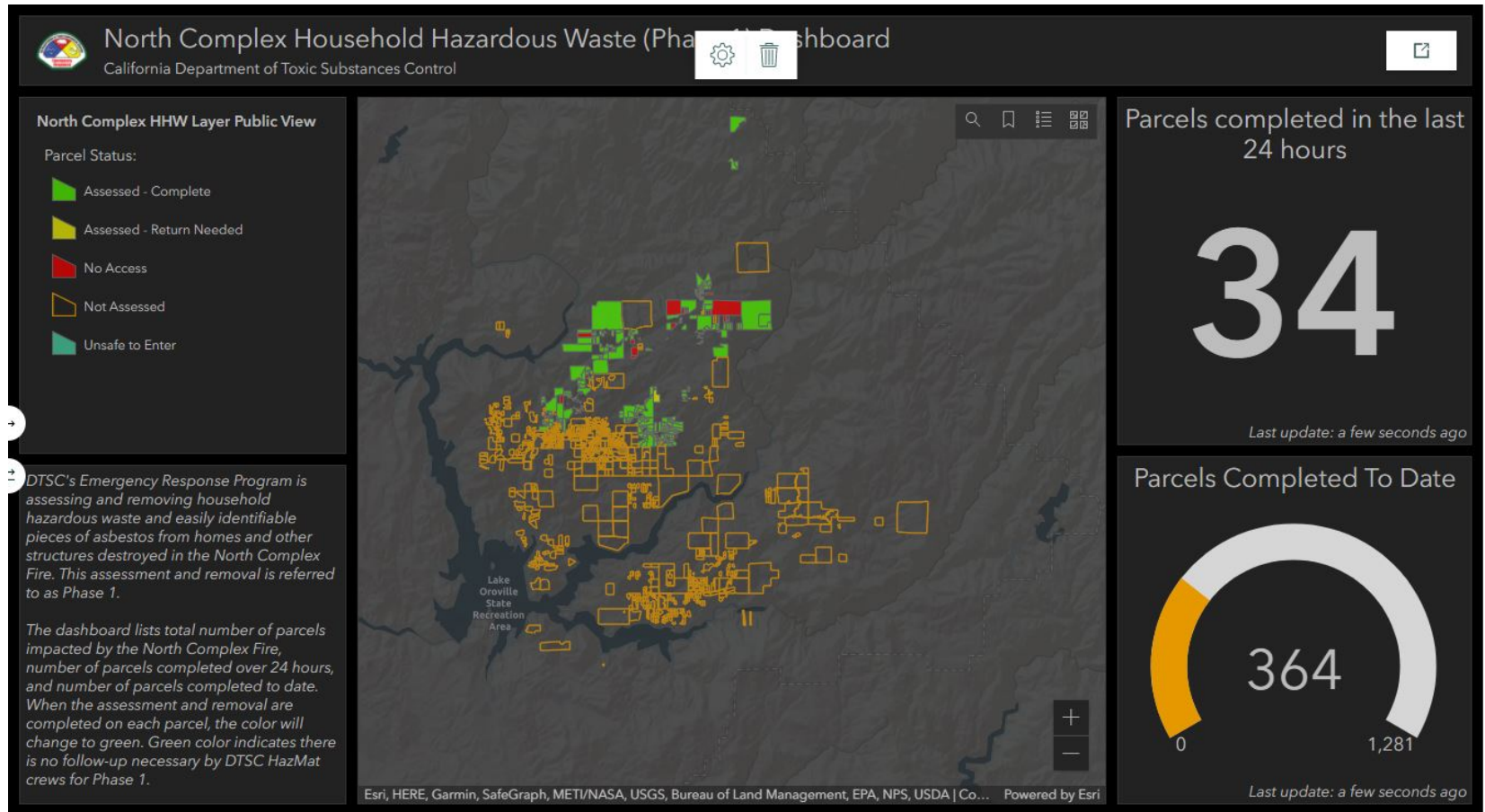
- Dashboards were made available to public showing current status of removal operations
- Information included assessment status, date of assessment, and daily and total counts of assessments
- Data updated nightly



ArcGIS Web Application



# Current Dashboard

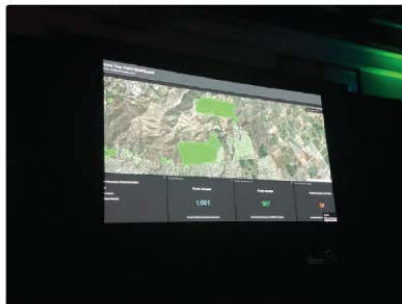


# NASCIO 2019 State IT Recognition Recipients





The @NASCIO 2019 State IT Recognition Award for Information Communications Technology (ICT) Innovations goes to:  
📍 California: Identification and Removal of Hazardous Materials During Wildfire Response

Congratulations, @CADeptTech, @CaliforniaEPA & @CaliforniaDTSC! #NASCIO19



[2019 Nascio Award](#)



**CalEPA**  
California Environmental Protection Agency

**DTSC**  
Department of Toxic Substances Control

## Emergency Management Innovation Project

Category:  
Information Communications Technology Innovations

Contact:  
Jennifer Benson, Chief Information Officer  
Jennifer.Benson@dtsc.ca.gov

Initiation Date:  
October 2017

Project Completion Date:  
Multiple Production Iterations

Last Production Iteration Release:  
December 2018



# Factors for Success

- Cross agency collaboration drive technology adoption and share in technology successes.
- Agile environment allows us to deliver quickly and pivot early to help identify successful solutions
- Executive support allows an innovative culture to thrive in exploring new technologies.
- Allowing business to see technology quickly builds a trust relationship for future innovation.

# Contact Information

- Billy Ferguson
- Solutions Manager
- William.Ferguson@dtsc.ca.gov

[Story Map](#)



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# DTSC Questions

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# Survey for Future Topics

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# Open Discussion

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# Closing Remarks

## Manveer Bola

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# THANK YOU



Post conference materials will be published on:

<https://cdt.ca.gov/dwsn>

For questions:

[DigitalWebServicesNetwork@state.ca.gov](mailto:DigitalWebServicesNetwork@state.ca.gov)